BRUHAT BANGALORE MAHANAGARA PALIKE
PROJECT DIVISION-YELAHANKA

Name of Work

Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).

TEST REPORTS

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.45, Present BBMP No.1204/45, Old No.1204, 1st Main,
MRCR Layout, Bangalore-560040
email: tejusconsultants@gmail.com

TEJUS

No.TC/BBMP/YNK Project – PMC / 480 / 2022-23 Date:

To
The Executive Engineer
Yelahanka project Division
Bangalore-92

Dear Sir

Sub: Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the Second and Final bill submitted by Sri .K lakshmi Narayana Reddy NO 62, 1ST Floor Vyalikaval Society ,Chaithanya Tecno School ,VeeranaPalya ,Bangalore-560045. towards the above said work and arrived at an amount of Rs 19752437.72/-(Rupees One Crore Ninety Seven Lakhs Fifty Two Thousand Four Hundred and Thirty Seven Rupees and Seventy Two Paise Only) the work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

For Tejus Consultants

No. 62, Sreepura, 6th Main, 12th A Cross, 12th Main, HRBR Layout, Bangalore-560043. Ph: 9611155554, 9611544110. tejusconsultants@gmail.com

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Slab)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	10-11-2022	17-11-2022	28days	8.231	22500	566	25.16	25.23
2	10-11-2022	17-11-2022	28days	8.350	22500	573	25.47	
3	10-11-2022	17-11-2022	28days	8.420	22500	564	25.07	

Remarks : Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

TEJUS CONSULTANTS

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Consultant	:	Tejus Consultants,
Date of Testing	:	12-11-2022
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	8mm ,10mm, 12mm, 16mm, 20mm TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2 '	Elongation,percent on gauge length
1	8	0.397	518	563	15
2	10	0.619	523	576	16
3	12	0.890	537	588	17
4	16	1.580	545	591	18
5	20	2.470	556	598	19

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Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Consultant	:	TEJUS CONSULTANTS
No.of Sample Tested	:	3
Date of Testing	:	12-11-2022
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.377	2258.88	1.70	0.960	29.59	15.07	16.28	15.62	19.53
2	50.00	85.00	0.389	2330.78	1.70	0.960	29.92	15.24	16.46	15.80	19.75
3	50.00	85.00	0.388	2324.79	1.70	0.960	29.87	15.21	16.43	15.77	19.72

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Consultant's Representative

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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KERB STONE (CORE) TEST REPORT

Name of Work	:	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02).
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Consultant	:	TEJUS CONSULTANTS
No.of Sample Tested	:	3
Date of Testing	:	12-12-2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength
1	50.00	85.00	0.378	2264.87	1.70	0.960	29.77	15.16	16.37	15.72	19.65
2	50.00	85.00	0.389	2330.78	1.70	0.960	29.92	15.24	16.46	15.80	19.75
3	50.00	85.00	0.388	2324.79	1.70	0.960	29.68	15.12	16.33	15.67	19.59

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	**M sand**	**Proposed Use**	Concrete
Location/Source	**At Plant/site**	**Date of Sampling**	01-12-2022
Period of Soaking	**24 hours**	**Date of Testing**	02-12-2022

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.		664	640	672	
B	Weight of oven - dry sample gm.		655	632	664	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1678	1697	
E	Bulk specific gravity	B / (C + A - D)	2.652	2.667	2.656	**2.658**
G	Absorption (%)	(A - B) *100 / B	1.374	1.266	1.205	**1.282**

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Footing)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02-12-2022	09-12-2022	7 days	8.825	22500	375	16.67	16.64
2	02-12-2022	09-12-2022	7 days	8.830	22500	372	16.53	
3	02-12-2022	09-12-2022	7 days	8.871	22500	376	16.71	

Remarks : ✓ Satisfactory / Not Satisfactory

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Yelahanka Zone
BBMP, Bangalore - 92

Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Footing)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02-12-2022	30-12-2022	28days	8.224	22500	563	25.02	25.16
2	02-12-2022	30-12-2022	28days	8.324	22500	570	25.33	
3	02-12-2022	30-12-2022	28days	8.420	22500	565	25.11	

Remarks : ✓ Satisfactory / Not Satisfactory

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Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete	
Sample Location	At Plant	**Date of Sampling**	02-12-2022	
		Date of Testing	02-12-2022	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	266	266	2.66	97.34	95 - 100
10.00 mm	4892	5158	51.58	48.42	25 - 55
4.75 mm	4238	9396	93.96	6.04	0 - 10
Pan	604	10000			

Remarks : Satisfactory / Not Satisfactory

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

TEST REPORT

TEJUS CONSULTANTS

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size		Proposed Use	Concrete	
Sample Location	Plant		Date of Sampling	02-12-2022	
			Date of Testing	02-12-2022	
IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	573	573	5.73	94.27	90-100
10.0	3341	3914	39.14	60.86	40-85
4.75	5422	9336	93.36	6.64	0-10
Pan	664	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Materia	M sand	**Proposed Use**	Concrete	
Sample Location	At Plant	**Date of Sampling**	02-12-2022	
		Date of Testing	02-12-2022	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	232	232	7.73	92.27	90 - 100
2.36 mm	279	511	17.03	82.97	75 - 100
1.18 mm	515	1026	34.20	65.80	55 - 90
0.600 mm	542	1568	52.27	47.73	35 -59
0.300 mm	660	2228	74.27	25.73	8-30
0.150 mm	535	2763	92.10	7.90	0 - 10
Pan	237	3000			-

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Test Report on Cement

TEJUS CONSULTANTS

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Sample ID	Cement (OPC 43 Grade)
Date of Sample Tested	02-12-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	114 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	436 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**	**Proposed Use**	CONCRETE	
Sample Location	At Plant	**Date of Sampling**	**08-12-2022**	
		Date of Testing	**09-12-2022**	

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	502	502	5.02	94.98	90-100
10.0	4527	5029	50.29	49.71	40-85
4.75	4310	9339	93.39	6.61	0-10
Pan	661	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)"
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	Cycle track	**Date of Sampling**	08-12-2022
		Date of Testing	09-12-2022

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	76	76	2.53	97.47	95-100
20.00mm	1378	1454	48.47	51.53	30-70
10.00mm	964	2418	80.60	19.40	10-35
4.75mm	473	2891	96.37	3.63	0-5
Pan	109	3000	100.00	0.00	

Remarks : C Satisfactory / Not Satisfactory

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)"
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size			Proposed Use	PCC
Sample Location	Cycle track			Date of Sampling	08-12-2022
				Date of Testing	09-12-2022

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	73	73	2.43	97.57	95-100
20.00mm	1371	1444	48.13	51.87	30-70
10.00mm	967	2411	80.37	19.63	10-35
4.75mm	466	2877	95.90	4.10	0-5
Pan	123	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)"
Consultants	Tejus Consultants, Bangalore
Contractor	M/s.LNR Ventures Construction pvt Ltd

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC
Sample Location	Cycle track	Date of Sampling	08-12-2022
		Date of Testing	09-12-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
9.00 mm	0	0	0	100.00	100
4.75 mm	218	218	7.27	92.73	90 - 100
2.36 mm	323	541	18.03	81.97	75 - 100
1.18 mm	418	959	31.97	68.03	55 - 90
0.600 mm	486	1445	48.17	51.83	35 -59
0.300 mm	744	2189	72.97	27.03	8-30
0.150 mm	621	2810	93.67	6.33	0 - 10
Pan	190	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)"
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC
Location/Source	cycle track	Date of Sampling	08-12-2022
Period of Soaking	24 hours	Date of Testing	09-12-2022

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		650	637	646	
B	Weight of oven - dry sample gm.		642	630	639	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1684	1676	1681	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.664	2.669	2.663	2.665
G	Absorption (%)	$\frac{(A-B)*100}{B}$	1.246	1.111	1.095	1.151

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BBMP, Bangalore - 92

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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	09-12-2022
Sample Supplied By	Agency

SLNo.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	103 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	487 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	8 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M25
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Attur Samudayabhavan building (Plinth Beam)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	19-12-2022	28-12-2022	7 days	8.824	22500	376	16.71	16.64
2	19-12-2022	28-12-2022	7 days	8.832	22500	372	16.53	
3	19-12-2022	28-12-2022	7 days	8.870	22500	375	16.67	

Remarks : ✓ Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	12-12-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	116 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	448 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

ients	
	Bruhat Bangalore Mahanagara Palike
oject	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
nsultants	TEJUS CONSULTANTS, Bangalore
ntractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SIEVE ANALYSIS

tal Weight:	3000 gms			
ype of terial	M sand	**Proposed Use**	concrete	
mple ocation	At Plant	**Date of Sampling**	11-12-2022	
		Date of Testing	12-12-2022	

S Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
.00 mm	0	0	0	100.00	100
5 mm	212	212	7.07	92.93	90 - 100
.36 mm	320	532	17.73	82.27	75 - 100
.18 mm	448	980	32.67	67.33	55 - 90
00 mm	493	1473	49.10	50.90	35 - 59
300 mm	717	2190	73.00	27.00	8 - 30
.150 mm	622	2812	93.73	6.27	0 - 10
n	188	3000			-

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Consultants	TEJUS CONSULTANTS, Bangalore
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	11-12-2022
Period of Soaking	24 hours	Date of Testing	12-12-2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	663	675	655	
B	Weight of oven - dry sample gm.	654	666	647	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1693	1699	1686	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.669	2.653	2.652	2.658
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.376	1.351	1.236	1.321

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Test Report on Cement

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	12-12-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	124 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	7 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Watchman shed side

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12-12-2022	09-01-2023	28days	8.216	22500	355	15.78	15.44
2	12-12-2022	09-01-2023	28days	8.215	22500	345	15.33	
3	12-12-2022	09-01-2023	28days	8.242	22500	342	15.20	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Compressive Strength of Concrete Cubes

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Location:	Cement
Grade of concrete:	M15
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Watchman shed side

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	12-12-2022	19-12-2022	7 days	8.832	22500	223	9.91	9.88
2	12-12-2022	19-12-2022	7 days	8.742	22500	220	9.78	
3	12-12-2022	19-12-2022	7 days	8.648	22500	224	9.96	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Compressive strength of Solid Block

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Cross sectional area	80000mm2
Size of cube	400x200x200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	16.12.2022	16.12.2022	80000	403.00	5.04	5.07	5.00
2	16.12.2022	16.12.2022	80000	406.00	5.08		
3	16.12.2022	16.12.2022	80000	408.00	5.10		

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Test Report on Compressive strength of Solid Block

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Cross sectional area	80000mm2
Size of cube	400x200x200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	16.12.2022	16.12.2022	80000	401.00	5.01	5.05	5.00
2	16.12.2022	16.12.2022	80000	407.00	5.09		
3	16.12.2022	16.12.2022	80000	403.00	5.04		

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Test Report on Compressive strength of Solid Block

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Cross sectional area	80000mm2
Size of cube	400x200x200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	16.12.2022	16.12.2022	80000	407.00	5.09	5.04	5.00
2	16.12.2022	16.12.2022	80000	402.00	5.03		
3	16.12.2022	16.12.2022	80000	400.00	5.00		

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Project Division
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BBMP, Bangalore - 52

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Test Report on Compressive strength of Solid Block

Project	Construction of Samudhaya Bhavana Building and Bus shelter & providing grill fencing and other development works at 407 SFS park, 707 SFS park, Sri madivala machideva park and Major Sandeep Unnikrishnan Park of Yelahanka Assembly Constituency Under Amrutha Nagarothana Grants (PACKAGE-02)
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.K Lakshmi Narayana Reddy (M/S.LNR Ventures Constructions pvt.Ltd)
Cross sectional area	80000mm2
Size of cube	400x150x200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	16.12.2022	16.12.2022	80000	411.00	5.14	5.10	5.00
2	16.12.2022	16.12.2022	80000	405.00	5.06		
3	16.12.2022	16.12.2022	80000	408.00	5.10		

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